



भारतीय प्रौद्योगिकी संस्थान कानपुर  
**INDIAN INSTITUTE OF TECHNOLOGY KANPUR**  
अंतरिक्ष, ग्रहीय और खगोलीय, विज्ञान और अभियांत्रिकी विभाग  
**DEPARTMENT OF SPACE PLANETARY & ASTRONOMICAL  
SCIENCES & ENGINEERING**

**Applications are invited for a position of Project Associate-I in a STC-sponsored project at the Department of Space, Planetary & Astronomical Sciences & Engineering, IIT Kanpur.**

We are seeking a talented individual with expertise in Optics and Python programming to join our dynamic team. The ideal candidate will contribute to cutting-edge projects in optical design, simulations, instrumentation development, leveraging Python for data analysis, algorithm development, and system integration. The project is to build a compact seeing monitor based on the principles of the Shack-Hartmann wavefront sensor. The tasks involved are:

- Validate the performance of the compact seeing monitor through numerical simulations and laboratory testing to ensure accuracy and reliability.
- Demonstrate the on-sky performance of the compact seeing monitor through field tests at IIT Kanpur and later at an astronomical observing site.

**Duration:** 1+1 year

**Name of the Post:** Project Associate -I

**Salary:** INR 37,000 (per month consolidated)

**Minimum Qualification:** Master's degree in physics or bachelor's degree in engineering or technology with at least 60% marks from a recognized University or equivalent. Candidates with qualified JRF are encouraged to apply.

**Desirable Skillset:**

- Proficiency in Python programming, with a focus on scientific or engineering applications.
- Strong foundational knowledge in optics, including concepts and practical applications.
- Excellent communication skills, including effective presentation delivery and thorough report preparation.
- Strong interpersonal skills to foster positive collaboration in a team-oriented environment.

Interested candidates may send their application including CV, cover letter, grade transcripts and work experience to the undersigned **on or before December 30<sup>th</sup> 2024** by e-mail at [iitkspase@gmail.com](mailto:iitkspase@gmail.com). Online interviews will be conducted with shortlisted candidates. The applicant must also provide at least one reference (including E-mail Ids) who can be contacted.

**Contact details:**

Dr. Prashant Pathak

Assistant Professor & PI

Department of Space, Planetary & Astronomical Sciences & Engineering (SPASE)

Indian Institute of Technology Kanpur